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MINUTES OF THE TWENTY-EIGHTH MEETING OF THE CANADIAN NATIONAL COMMITTEE ON ROCK MECHANICS HELD IN SUDBURY, SEPTEMBER 19, 1983.

D.G.F. HEDLEY

ELLIOT LAKE LABORATORY

SEPTEMBER 1983

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MINUTES OF THE TWENTY-EIGHTH MEETING OF THE CANADIAN NATIONAL COMMITTEE ON ROCK MECHANICS

Held in Sudbury, 19th September, 1983

Attendance

Members

J.C. Wilson, Chairman

D.G.F. Hedley, Secretary

T. Carmichael, Secretary CRMG

P. Baumgartner

K. Barron

J. Franklin

H. Miller

V. Pakalnis

P. Townsend

T.R. Yu

Ex-Officio

B. Ladanyi, Canadian Geotechnical Society

D. Gill

G. Swan

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* Research Scientist, Elliot Lake Laboratory, CANMET, Energy, Mines and Resources Canada, Elliot Lake, Ontario.

The Chairman, J.C. Wilson, opened the meeting at 1.0 p.m. and welcomed the members and guests.

1. MINUTES OF LAST MEETING

The minutes of the last meeting were accepted unanimously.

2. FINANCIAL REPORT OF CNCRM

D. Hedley summarized the financial status of the CNCRM and a financial statement for the 14th Canadian Rock Mechanics Symposium held in Vancouver in 1982, attached as Appendix A and B, respectively. As of 16th August, 1983 the balance on the CNCRM account was $16,648.19. The 14th Symposium had made a profit of $3,991.98. D. Hedley explained that the expenses of the 14th Symposium were spread over two financial years whereas the income from the Symposium was received in this financial year. The financial report was accepted unanimously.

3. REPORT OF CRMG

T. Carmichael presented the CRMG financial report which is attached as Appendix C, and was approved unanimously. In 1982 there had been 104 ordinary members and 4 corporate members. In 1983 there had been 160 new members for CGS registered for membership in ISRM. Present membership in the CRMG was 63 and 1 corporate member. It was anticipated that total Canadian membership in the ISRM would be about 250. It was agreed that for this year the CNCRM would continue to pay the national ISRM fee of approximately $75.00. Future payment of this fee would be arranged through the new Canadian Rock Mechanics Association. J. Franklin congratulated T. Carmichael for the time and effort put into the Newsletter.

4. PROCEEDINGS OF 14TH SYMPOSIUM

J.C. Wilson mentioned that he had contacted CIM and the Proceedings were expected to be published by the end of 1983. The two previous Symposia on "Mining with Backfill" and "Underground Rock Engineering" had already recovered over 200% of their cost. P. Baumgartner mentioned that more careful pre-editing would have speeded-up the publication of these Proceedings. It was suggested that in future CIM guidelines for publication be sent to authors and that SI units are recommended. P. Baumgartner was thanked for the time and effort spent technically editing these papers.

5. REPORT ON SUDBURY SYMPOSIUM

J.C. Wilson reported that there were 150 pre-registrants and 230 people were expected (final attendance was 240). Donations of $2,700 had been received from manufacturing organizations. D. Hedley reviewed the changes to the technical program due to late withdrawals of authors from Sweden, Australia and South Africa. M. Gyenge from CANMET and E. Hollop from the USBM had agreed to make presentations. D. Hedley also explained that most of the papers at this Symposium had been solicited after the experience of the "call for papers" at the 14th Symposium. The organizing committee was given a vote of thanks.

6. NEW STRUCTURE OF CNCRM

J.C. Wilson reviewed the progress to date. At the last meeting by-laws had been drafted for a proposed Rock Mechanics division of CIM. He had presented this proposal to CIM Council at their October meeting in Saskatoon. They advised that the proposal should be circulated to divisional Chairmen and regional Vice-Presidents for comments. The consensus was that creating a new Rock Mechanics division would cause dilution and fragmentation

of CIM and they recommended that Rock Mechanics remain as a committee, but expand its activities and work more closely with the existing CIM divisions. Subsequently, the organization and functions of a new Rock Mechanics & Strata Control Committee of CIM was circulated to CNCRM members and the Metal Mining, Coal, Industrial Minerals and Geology divisional Chairmen. The latter had endorsed this new committee and CIM Council had unanimously approved this new committee at its meeting that morning (19th September, 1983). K. Barron mentioned that a committee has the benefit of attracting members from all divisions of CIM, it operates the same as a division, but has no vote on CIM Council. D. Hedley stated that the inclusion of Strata Control in the Committee title was to attract more participation from coal and potash personnel. Previously the committee had been viewed as being almost exclusively devoted to hardrock mining. H. Miller and others raised the question of regional representation on the new committee. The executive committee would have an elected Chairman and Chairman-elect, but other members would be appointed by CIM divisions and may not reflect regions or different areas of technical expertise. K. Barron suggested that in addition to the executive committee a steering committee should be formed to ensure regional representation, but only the executive committee would have a vote. It was unanimously accepted that: "The CNCRM accepts the new name and structure and in addition a steering committee be formed to take into account regional representation and technical expertise".

It was also agreed that the Chairman should be elected for a two year period, but that in the first year of operation an interim Chairman should be elected for 1 year. The structure and functions of the Rock Mechanics & Strata Control Committee of CIM are attached as Appendix D.

7. ELECTION OF NEW CHAIRMAN

It was proposed by T.R. Yu and seconded by J. Franklin that V. Pakalnis be nominated as interim Chairman of the RM&SC committee and this was agreed to unanimously. D. Hedley agreed to serve as Secretary for one more year.

Secretary's Note: After the first day's (20th September, 1983) session at the Symposium in Sudbury the CIM members of the audience, interested in Rock Mechanics and Strata Control, were asked to remain and attend the first full meeting of the RM&SC Committee. At this meeting the structure and functions of the committee were described and V. Pakalnis was nominated as the Interim Chairman. The vote was unanimous for the nominee.

8. FORMATION AND ELECTION OF REPRESENTATIVES TO THE CANADIAN ROCK MECHANICS ASSOCIATION. (CRMA)

B. Ladanyi explained that meetings between himself representing the CGS and J. Wilson representing the CNCRM had taken place over the past year to organize this association. The CRMA would replace CRMG and would represent Canada at the International Society of Rock Mechanics. The CRMA would be a small group representing the two parent rock mechanics organizations in Canada in the Rock Mechanics and Strata Control Committee of CIM and the Rock Mechanics Division of CGS. It was proposed that each parent organization appoint three members to the CRMA and that a seventh member represent corporate interests. The draft by-laws of the CRMA are attached as Appendix E. Among other things the CRMA would distribute the ISRM and Canadian newsletters and send the membership fees to ISRM.

It was proposed and accepted that the Chairman, Chairman-elect and a member-at-large should represent the RM&SC committee on the CRMA. Due to his considerable involvement in ISRM, S. Bharti nominated J. Franklin as the member-at-large and this was accepted. It was strongly recommended that the

present Secretary/Treasurer of CRMG, T. Carmichael should be appointed by both RM&SC and the RM division of CGS as the corporate member on the CRMA. V. Pakalnis and B. Ladanyi would arrange the initial meeting of the CRMA.

9. 5TH AND 6TH INTERNATIONAL ROCK MECHANICS CONGRESS

B. Ladanyi reported that attendance at the 5th Congress in Melbourne was about 400 including 5 Canadians. Mining papers were well represented at the Congress. At the ISRM Council meeting the representatives from Mexico, Arturo Bello, was elected Vice-President for North America.

With regard to the 6th Congress in Montreal in 1987 the first or second week in September had been chosen and there was no conflict with other scheduled meetings. Preliminary discussions had been held with CIM and other technical organizations. Sub-committees were being formed and some Chairmen selected; D. Gill - local arrangements, N. Morgenstern - technical program, P. Calder - publications, G. Larocque - tours. Various members from the RM&SC committee would be required to serve on these sub-committees and it was agreed that our representatives on the CRMA should decide on which people to contact in this regard.

10. NEXT SPONSORED SYMPOSIUM

A general discussion took place on specialty and joint symposia. K. Barron stated that the Coal Division would like to operate joint sessions with the RM&SC committee at the CIM annual meetings and the coal operators conferences. It was decided that the timing and theme of future symposia should be left to the executive committee of RM&SC.

11. NEW BUSINESS

K. Barron mentioned that traditionally the Coal Division of CIM had appointed the Canadian representative to the International Strata Control

Conferences and they wish to continue this practice. However, information on activities of this organization would be transmitted to the RM&SC committee.

T. Carmichael thought that membership cards should be issued to ISRM members and it was agreed that this would be a good idea.

H. Miller mentioned that he has been organizing workshops and short courses on rock mechanics in the Vancouver area and asked whether the RM&SC committee could be of assistance in this type of activity. It was agreed that if there is sufficient lead-time the executive committee could sanction these types of activities.

12. A vote of thanks was extended to J.C. Wilson for his Chairmanship of the CNCRM over the last five years. The meeting was adjourned at 4.30 p.m.

D.G.F. Hedley
Secretary, RM&SC Committee

Appendix A

THE CANADIAN INSTITUTE OF MINING AND METALLURGY

Canadian National Committee on Rock Mechanics

Headquarters: Suite 400, 1130 Sherbrooke St. W., Montreal, Quebec H3A 2M8 Phone: 1-514-842-3481

FINANCIAL STATEMENT

August 16th, 1983

Balance as of March 31, 1982		$3,799.04
INCOME		
Grant from EMR	$3,000.00	
Interest	$2,273.40	
14th Symposium	$20,735.84	
Refund of airfare (James Bay)	$211.70	
	$26,220.94	$30,019.98
EXPENDITURES		
ISRM national fee	$75.00	
Secretarial expenses	$150.00	
14th Symposium	$10,862.10	
CNCRM annual meeting	$247.15	
Chairman's expenses attending CGS meeting & CIM Council	$1,617.90	
CRMG Gold Medals	$390.98	
Sudbury Symposium	$28.66	
	$13,371.79	
Closing balance August 16, 1983		$16,648.19

Appendix B

THE CANADIAN INSTITUTE OF MINING AND METALLURGY

Canadian National Committee on Rock Mechanics

Headquarters: Suite 400, 1130 Sherbrooke St. W., Montreal, Quebec H3A 2M8 Phone: 1-514-842-3481

FINANCIAL STATEMENT

OF

14th Canadian Rock Mechanics Symposium
Vancouver, May 1982

INCOME

Registration 122 people	$15,315.00
Tours	$1,240.00
Meals	$2,615.00
Sale of Preprints	$1,565.84
	$20,735.84

EXPENDITURES

Advance to organizing committee	$500.00
Printing, brochures, preprints, abstracts, registration, mailing	$8,767.60
Tour buses	$996.50
Hotel expenses	$5,914.75
Keynote speaker expenses	$565.01
	$16,743.86
Profit	$3,991.98

CANADIAN ROCK MECHANICS GROUP
1982 FINANCIAL STATEMENT

January 1, 1982 - January 4, 1983

BANK ACCOUNT

	CREDITS	DEBITS	BALANCE
1. Receipts			
Opening Balance January 1, 1982			
A. Current Account (from 1981 Financial Statement)	62.41		
B. Membership fees (104 ord. + 4 supp.)	1,068.00		
C. CIMM National Fee	75.00		
	1,205.41		1,205.41
2. Expenditures			
Remittance to ISRM (US $)			
-Membership		720.00	
-Exchange		294.01	
		1,014.01	
Overhead - Stationery -			
Postage -		184.00	
Telephone Charges -			
Printing Charges -			
Bank Charges - TD		8.05	
		1,206.06	1,206.06
			$ (.65)
3. Closing Balance - December 31, 1982			
Current account		157.67	
- Late ISRM Dues Payment of 141.88 paid by cheque on Jan 4 to be sub-tracted from above			
		$ 15.79	
		Balance	$ 15.14

MEMBERSHIP ACCOUNT

	CREDITS	DEBITS	BALANCE
1. Receipts			
104 individual @ $ 7.00	728.00		
4 supporting @ $85.00	340.00		
CIMM Nat Fee @ $75.00	75.00		
	1,143.00		1,143.00
2. Expenditures			
Remittance to ISRM (US $)			
National fee		60.00	
100 individual @ $ 4.20		420.00	
4 supporting @ $60.00		240.00	
Exchange		294.01	
		1,014.01	1,014.01
3. Membership Credits			$ 128.99

T.J. Carmichael
Secretary-Treasurer
Canadian Rock Mechanics Group
September 19, 1983

Appendix D

THE CANADIAN INSTITUTE OF MINING AND METALLURGY

Canadian National Committee on Rock Mechanics

Headquarters: Suite 400, 1130 Sherbrooke St. W., Montreal, Quebec H3A 2M8 Phone: 1-514-842-3481

ROCK MECHANICS AND STRATA CONTROL COMMITTEE
OF
THE CANADIAN INSTITUTE OF MINING AND METALLURGY

Membership

Open to all interested members of CIM.

Functions

a) Organize symposia, conferences, seminars on rock mechanics and strata control on behalf of CIM and/or conjunction with divisions of CIM.

b) Promote publication and provide critical reviews for rock mechanics and strata control papers in the CIM Bulletin.

c) Undertake reviews on aspects of rock mechanics and strata control to identify technology advancement to the mining industry and related organizations.

d) To advise the Federal Government of Canada through CANMET, Energy, Mines and Resources on the support of research on rock mechanics and strata control.

e) Represent the mining aspects of rock mechanics by Canadian membership in the International Society for Rock Mechanics, through executive membership in the Canadian Rock Mechanics Association.

f) In conjunction with other rock mechanics disciplines in Canada participate in the organization of internationally sponsored symposia.

Executive Committee

Chairman - elected by total membership
Vice Chairman (Chairman-elect) - elected by total membership
Representative of Metal Mining Division - appointed
Representative of Coal Division - appointed
Representative of Industrial Minerals Division - appointed
Representative of Geology Division - appointed
Secretary - appointed by Executive Committee

Steering Committee

Regional representatives and areas of technical expertise.

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Chairman will serve for a term of 2 years. Appointed members serve for 3 years on a rotational basis and can be reappointed for a second 3 year term.

Meetings

Takes place annually, preferably when a rock mechanics/strata control conference is taking place. Election for the Chairman-Elect will take place at these meetings.

Fees

Included in regular dues to CIM. Members wishing membership in ISRM will be charged an additional fee (at present $7/year in 1983).

Appendix E

CANADIAN ROCK MECHANICS ASSOCIATION

CONSTITUTION

1.0 NAME

1.1 The name of the Association shall be the Canadian Rock Mechanics Association (Abbreviated: CRMA).

2.0 PURPOSE AND OBJECTIVES

2.1 The Association is constituted to effect adherence to and support the objects and purposes of the International Society for Rock Mechanics (ISRM) on behalf of Canadian scientists, engineers and technologists interested in rock mechanics, and will represent Canada, acting as its National Group, within the terms of reference of the ISRM Constitution.

2.2 The general objectives of the Association shall consist in:

(a) providing for individual membership in the ISRM;

(b) providing a medium for communication and cooperation among those interested in any aspect of rock mechanics;

(c) disseminating knowledge and information through meetings, publications, discussions and other means of communication;

(d) co-ordinating and co-sponsoring national and international rock mechanics conferences;

(e) encouraging interest and the advancement of education in rock mechanics and rock engineering;

(f) engaging in other activities meant to promote the development of knowledge concerning rock mechanics.

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3.0 MEMBERSHIP

3.1 The Association shall be composed of the members of the two existing Rock Mechanics divisions, i.e., the Rock Mechanics Division of the Canadian Geotechnical Society and the Rock Mechanics Division of the Canadian Institute of Mining and Metallurgy, and of individual members paying a separate fee to the Association.

4.0 GOVERNMENT

4.1 The Association shall be self-governing within its Constitution and By-Laws. An Executive Committee of the Association of at least six members, shall be elected in accordance with the procedures identified in the By-Laws.

4.2 The Executive Committee of the Association shall be composed of an equal number of representatives of the two constituent Divisions plus one corporate ISRM member and a member representing the individual membership at large.

4.3 The Constitution of the Canadian Rock Mechanics Association shall be amended by the membership, subject to the ratification of its Executive Committee (7).

CANADIAN ROCK MECHANICS ASSOCIATION

BY-LAWS

1.0 MEMBERSHIP

1.1 Individual membership in the CRMA shall be applied for in writing and in such a form as may be prescribed from time to time.

1.2 All paid members of the two constituent Divisions shall be considered to be also members of the CRMA.

1.3 The membership year for the CRMA shall be the same as for the ISRM.

2.0 OFFICERS

2.1 The Executive of CRMA shall be composed of the elected Chairmen and two members of each of the constituent Divisions, plus one additional corporate ISRM member and a member representing individual membership at large.

2.2 The term of office of each member of the Executive shall be four years. Three of the members shall be replaced or renominated every two years. No member of the CRMA Executive may serve more than eight (8) consecutive years as a member of that committee.

2.3 The CRMA Executive shall elect amongst themselves a Chairman, a Vice-Chairman and a Secretary-Treasurer.

2.4 Executive Committee members should be nominated on a regional basis wherever possible.

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2.5 Election for members of the Executive Committee of CRMA shall be held at the time of the annual general meeting of the Association, except for the first election.

3.0 ADMINISTRATION OF THE ASSOCIATION

3.1 The Executive members of the Executive Committee (vice Chairman, Vice-Chairman and Secretary) shall administer the affairs of the Association.

3.2 Without specifying the duties of an individual member of the Executive Committee, it shall be responsible for:

(a) co-ordination with the organizers responsible for conferences and meetings concerning rock mechanics;

(b) edition of CRMA News letter and co-ordination with the editors of Newsletters and Journals of the two constituent Divisions for the dissemination of information;

(c) maintenance of separate membership lists;

(d) recommendations to the Association for delegates and alternate delegates to meetings of the International Society for Rock Mechanics and other similar international groups;

(e) recommendations to the Association for all other action as may be necessary to stimulate the purpose of the Association.

3.3 The Executive shall meet at least once per year, preferably at the time of the annual meeting of one of the constituent Divisions.

3.4 The Executive may appoint such committees as are necessary for the efficient administration of the Association.

4.0 FINANCES

4.1 The finances for the Association shall be administered by its Executive Committee, and the financial year shall be similar to that of the ISRM.

4.2 The CRMA Executive shall determine from time to time the membership fees to be charged. These fees shall be such as to cover the ISRM membership fees plus operating costs such as for printing of CRMA Newsletter and mailing.

4.3 The fees of the Association shall be composed of the fees collected from individual members, plus a part of fees collected by the two constituent Divisions.

5.0 MEETINGS

5.1 An Annual General Meeting of the Association shall be held at the call of the Chairman, for the transaction of business and approval of all matters of interest to the Association.

5.2 A mail ballot shall be taken on any recommendation from a general meeting of the Association which, in the opinion of the Executive, has a substantial effect upon the membership of the Association at large.

6.0 RULES OF PROCEDURE

6.1 The Executive shall establish rules of procedures concerning the method of carrying out elections, the method of determining

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regional representation, the sizes of quorums and all such other matters as may be necessary for the administration of the Association.

7.0 AMENDMENTS

7.1 Amendments to the Constitution of the Association may be recommended following a vote at a General Meeting of the Association or by a vote taken by mail ballot.

7.2 Amendments to the By-Laws of the Division may be recommended to the membership by:

a. approval from a majority of the Executive of the Association at any time;

b. a majority vote at a General Meeting of the Association.